

Data Sheet

NAME: HIV-1 Con B Gag peptides - Complete Set

REPOSITORY REFERENCE: ARP7111.1-123

REGION OF HOMOLOGY: Gag

SIZE: 15mers

SPECIAL CHARACTERISTICS: Series of peptides comprising the Subtype B Gag region. Most of the peptides are 15 amino acids in length, with 11-amino acid overlaps between sequential peptides. Most peptides are >80% pure. Peptides that are difficult to solubilize can almost always be dissolved in DMSO. Once a peptide is in solution, the DMSO can be slowly diluted with aqueous medium. Care must be taken to ensure that the peptide does not begin to precipitate out of solution.

PRESENTATION: 123 vials, 1.0 mg each, lyophilized.

SOURCE: AIDS Research and Reference Reagent Program, Division of AIDS, NIAID, NIH.

ACKNOWLEDGEMENTS: Publications should acknowledge the donor of the reagent and the Programme EVA Centre for AIDS Reagents. Suggested wording can be found on our website at <http://www.nibsc.ac.uk/spotlight/aidsreagent/index.html> in the “Acknowledgements” section. Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be electronically or as a paper copy)

HIV-1 Consensus Subtype B Gag (15-mer) Peptides - Complete Set

Determination of solubility: appr. 0.25 mg of the respective peptide was incubated with 1ml of solvent.

Solubility was assessed by visual inspection of the resulting solution/ suspension.

"+": complete dissolution

"-": incomplete dissolution

Repository Reference	Amino Acid Sequence	NIH Cat #	Molecular Weight	HPLC Purity	Peptide Content	Solubility Data			
						Water	PBS	10% Acetic Acid	DMSO
ARP7111.1	MGARASVLSGGELDR	7872	1517.8	>80%	76.0%	+	+	+	+
ARP7111.2	ASVLSGGELDRWEKI	7873	1660.7	>80%	65.8%	+	+	+	+
ARP7111.3	SGGELDRWEKIRLRP	7874	1812.2	>80%	72.1%	+	+	+	+
ARP7111.4	LDRWEKIRLRPGGKK	7875	1852.8	>80%	71.3%	+	+	+	+
ARP7111.5	EKIRLRPGGKKKYKL	7876	1815.3	>95%	75.5%	+	+	+	+
ARP7111.6	LRPGGKKKYKLBHIV	7877	1765.2	>80%	67.3%	+	+	+	+
ARP7111.7	GKKKYKLBHIVWASR	7878	1844.6	>80%	87.3%	+	+	+	+
ARP7111.8	YKLBHIVWASRELER	7879	1929.0	>80%	68.8%	+	+	-	+
ARP7111.9	HIVWASRELERFAVN	7880	1828.2	>80%	69.0%	-	-	+	+
ARP7111.10	ASRELERFAVNPGLL	7881	1672.6	>80%	73.8%	+	+	+	+
ARP7111.11	LERFAVNPGLLETSE	7882	1676.2	>80%	74.8%	+	+	+	+
ARP7111.12	AVNPGLLETSEGCRQ	7883	1573.8%	>80%	78.9%	+	+	+	+
ARP7111.13	GLETSEGCRQILGQ	7884	1604.9	>80%	74.6%	+	+	+	+
ARP7111.14	TSEGCRQILGQLQPS	7885	1616.8	>80%	71.7%	+	+	+	+
ARP7111.15	CRQILGQLQPSLQTG	49855	1642.5	>80%	69.1%	+	+	+	+
ARP7111.16	LGQLQPSLQTGSEEL	49856	1600.1	>80%	71.5%	+	+	+	+
ARP7111.17	QPSLQTGSEELRSLY	50451	1706.3	>80%	70.6%	+	+	+	+
ARP7111.18	QTGSEELRSLYNTVA	49858	1654.4 (M-17)	>80%	71.5	+	+	+	+
ARP7111.19	EELRSLYNTVATLYC	49859	1775.6	>80%	72.5%	+	+	+	+
ARP7111.20	SLYNTVATLYCVHQR	49860	1769.1	>80%	74.4%	+	-	+	+
ARP7111.21	TVATLYCVHQRIEVK	49861	1761.0	>80%	67.0	+	-	-	+
ARP7111.22	LYCVHQRIEVKDTKE	49862	1861.6	>80%	83.9%	+	+	+	+
ARP7111.23	HQRIEVKDTKEALEK	49863	1824.8	>80%	69.0%	+	+	+	+
ARP7111.24	EVKDTKEALEKIEEE	49864	1792.2	>80%	68.5%	+	+	+	+
ARP7111.25	TKEALEKIEEEQNKS	49865	1778.4	>80%	75.2%	+	+	+	+
ARP7111.26	LEKIEEEQNKSKKKA	49866	1803.7	>80%	75.1%	+	+	+	+
ARP7111.27	EEEQNKSKKKAQQAA	49867	1717.6	>80%	69.4%	+	+	+	+
ARP7111.28	NKSKKKAQQAAADTG	49868	1545.9	>80%	71.9%	+	+	+	+
ARP7111.29	KKAQQAAADTGNSSQ	49869	1505.6	>80%	68.5%	+	+	+	+
ARP7111.30	QAAADTGNSSQVSN	121206A2	1476.64	>80%	85%	+	+	+	+
ARP7111.31	DTGNSSQVSNYPIV	49871	1608.5	>80%	66.0%	+	+	+	+
ARP7111.32	SSQVSNYPIVQNLQ	49872	1706.0	>80%	68.5%	+	+	+	+
ARP7111.33	SQNYPIVQNLQGMV	49873	1719.2	>80%	77.6%	+	+	+	+
ARP7111.34	PIVQNLQGMVHQAI	49874	1677.1	>80%	61.0%	+	-	+	+

Repository Reference	Amino Acid Sequence	NIH Cat #	Molecular Weight	HPLC Purity	Peptide Content	Solubility Data			
						Water	PBS	10% Acetic Acid	DMSO
ARP7111.35	NLQGQMVHQAI SPRT	49875	1680.6	>80%	76.6%	+	+	+	+
ARP7111.36	QMVHQAI SPRTLNAW	49876	1753.3	>80%	72.5%	+	+	+	+
ARP7111.37	QAIS PRTLNAWVKVV	49877	1682.7	>80%	63.2%	+	+	-	+
ARP7111.38	PRTLNAWVKVVEEKA	49878	1739.8	>80%	68.3%	+	+	+	+
ARP7111.39	NAWVKVVEEKA FSPE	49879	1734.0	>80%	67.9%	+	+	+	+
ARP7111.40	KVVEEKA FSPEVIPM	49880	1705.2	>80%	73.9%	+	+	+	+
ARP7111.41	EKA FSPEVIPMFSAL	49881	1668.2	>80%	75.7%	+	+	+	+
ARP7111.42	SPEVIPMFSALSEGA	50453	1534.6	>80%	69.5	+	+	+	+
ARP7111.43	IPMFSALSEGATPQD	49883	1563.4	>80%	67.9%	+	+	+	+
ARP7111.44	SALSEGATPQDLNTM	49884	1534.7	>80%	68.8%	+	+	+	+
ARP7111.45	EGATPQDLNTMLNTV	49885	1605.8	>80%	69.4%	+	+	+	+
ARP7111.46	PQDLNTMLNTVGGHQ	49886	1624.4	>90%	75.2%	+	+	+	+
ARP7111.47	NTMLNTVGGHQ AAMQ	49887	1572.6	>80%	67.0%	+	+	+	+
ARP7111.48	NTVGGHQ AAMQMLKE	49888	1615.9	>80%	70.6%	+	+	+	+
ARP7111.49	GHQAAMQMLKETINE	49889	1701.0	>80%	65.1%	+	+	+	+
ARP7111.50	AMQMLKETINEEAAE	49890	1705.6	>80%	63.0	+	+	+	+
ARP7111.51	LKETINEEAAEWDR L	50586	1817.8	>80%	69.8%	+	+	+	+
ARP7111.52	INEEAAEWDR LHPVH	49892	1817.6	>80%	65.3%	+	+	+	+
ARP7111.53	AAEWDR LHPVHAGPI	49893	1668.5	>80%	64.5%	+	+	+	+
ARP7111.54	DRLHPVHAGPIAPGQ	49894	1565.5	>80%	67.0%	+	+	+	+
ARP7111.55	PVHAGPIAPGQMREP	49895	1556.3	>80%	73.3%	+	+	+	+
ARP7111.56	GPIAPGQMREPRGSD	49896	1569.0	>80%	76.9%	+	+	+	+
ARP7111.57	PGQMREPRGSDIAGT	49897	1572.0	>80%	68.4%	+	+	+	+
ARP7111.58	REPRGSDIAGTTSTL	50494	1559.8	>80%	66.6%	+	+	+	+
ARP7111.59	GSDIAGTTSTLQEQI	49899	1520.0	>80%	65.4%	+	+	+	+
ARP7111.60	AGTTSTLQEQIGWMT	49900	1623.6	>80%	65.7%	+	+	+	+
ARP7111.61	STLQEQIGWMTNPP	49901	1716.0	>80%	70.8%	+	+	+	+
ARP7111.62	EQIGWMTNPPPIPVG	49902	1652.8	>80%	69.7%	+	+	+	+
ARP7111.63	WMTNPPPIPVGEIYK	49903	1759.6	>80%	67.7%	+	+	+	+
ARP7111.64	NPPIPVGEIYKRWII	49904	1794.9	>80%	67.6%	+	+	+	+
ARP7111.65	PVGEIYKRWII LGLN	49905	1771.5	>80%	63.4%	+	+	+	+
ARP7111.66	IYKRWII LGLNKIVR	49906	1885.8	>80%	83.3%	+	+	+	+
ARP7111.67	WII LGLNKIVRMYS P	49907	1804.0	>80%	65.1%	+	-	+	+
ARP7111.68	GLNKIVRMYSPTSIL	49908	1692.6	>80%	67.3%	+	+	+	+
ARP7111.69	IVRMYSPTSILDIRQ	49909	1793.8	>80%	71.4%	+	+	+	+
ARP7111.70	YSPTSILDIRQGPKE	49910	1703.7	>80%	73.6%	+	+	+	+
ARP7111.71	SILDIRQGPKEPFRD	49911	1771.8	>80%	67.9%	+	+	+	+
ARP7111.72	IRQGPKEPFRDYVDR	49912	1876.0	>80%	67.9%	+	+	+	+
ARP7111.73	PKEPFRDYVDRFYKT	49913	1962.8	>80%	70.9%	+	+	+	+

Repository Reference	Amino Acid Sequence	NIH Cat #	Molecular Weight	HPLC Purity	Peptide Content	Solubility Data			
						Water	PBS	10% Acetic Acid	DMSO
ARP7111.74	FRDYVDRFYKTLRAE	49914	1978.6	>80%	54.1%	+	+	+	+
ARP7111.75	VDRFYKTLRAEQASQ	49915	1812.5	>80%	68.4%	+	+	+	+
ARP7111.76	YKTLRAEQASQEVKN	49916	1765.7	>80%	51.6%	+	+	+	+
ARP7111.77	RAEQASQEVKNWMTE	49917	1807.9	>80%	60.6%	+	+	+	+
ARP7111.78	ASQEVKNWMTETLLV	49918	1749.4	>80%	73.6%	+	+	+	+
ARP7111.79	VKNWMTETLLVQNaN	50503	1760.0	>80%	66.9%	+	+	+	+
ARP7111.80	MTETLLVQNaNPDCK	50188	1678.6	>80%	83.1%	+	+	+	+
ARP7111.81	LLVQNaNPDCKTILK	49921	1670.0	>80%	70.3%	+	+	+	+
ARP7111.82	NANPDCKTILKALGP	49922	1554.3	>80%	73.7%	+	+	+	+
ARP7111.83	DCKTILKALGPAATL	49923	1516.8	>80%	71.8%	+	+	+	+
ARP7111.84	ILKALGPAATLEEMM	49924	1589	>80%	67.7%	+	+	+	+
ARP7111.85	LGPAATLEEMMTACQ	49925	1565.6	>80%	74.4%	+	+	+	+
ARP7111.86	ATLEEMMTACQGVGG	49926	1497.5	>80%	66.2%	+	+	+	+
ARP7111.87	EMMTACQGVGGPGHK	49927	1502.7	>80%	72.6%	+	+	+	+
ARP7111.88	ACQGVGGPGHKARVL	50452	1450.6	>80%	71.5%	+	+	+	+
ARP7111.89	VGGPGHKARVLAEAM	50189	1492.3	>80%	75.7%	+	+	+	+
ARP7111.90	GHKARVLAEAMSQVT	50260	1599.8	>80%	72.0%	+	+	+	+
ARP7111.91	RVLAEAMSQVTNSAT	49931	1578.3	>80%	75.3%	+	+	+	+
ARP7111.92	EAMSQVTNSATIMMQ	270207P1	1640.71	>80%	90%	-	-	-	+
ARP7111.93	QVTNSATIMMQRGNF	50493	1698.6	>80%	71.2%	+	+	+	+
ARP7111.94	SATIMMQRGNFRNQR	49934	1812.9	>80%	66%	+	-	+	+
ARP7111.95	MMQRGNFRNQRKTVK	49935	1894.0	>80%	76.8%	+	+	+	+
ARP7111.96	GNFRNQRKTVKCFNC	49936	1816.0	>80%	72.5%	+	+	+	+
ARP7111.97	NQRKTVKCFNCGKEG	49937	1712.9	>80%	63.4%	+	+	+	+
ARP7111.98	TVKCFNCGKEGHIK	49938	1637.0	>80%	68.7%	+	+	+	+
ARP7111.99	FNCGKEGHIKNCRA	49939	1648.8	>80%	73.2%	+	+	+	+
ARP7111.100	KEGHIKNCRAPRKK	49940	1737.0	>80%	58.2%	+	+	+	+
ARP7111.101	IAKNCRAPRKKGCWK	49941	1760.0	>80%	68.8%	+	+	+	+
ARP7111.102	CRAPRKKGCWCKGKE	49942	1750.4	>80%	64.6%	+	+	+	+
ARP7111.103	RKKGCWCKGKEGHQM	49943	1777.0	>80%	62.7%	+	+	+	+
ARP7111.104	CWCKGKEGHQMKDCT	50104	1754.6	>80%	54.6%	+	+	+	+
ARP7111.105	GKEGHQMKDCTERQA	49945	1717.6	>80%	73.6%	+	+	+	+
ARP7111.106	HQMKDCTERQANFLG	49946	1777.6	>80%	69.2%	+	+	+	+
ARP7111.107	DCTERQANFLGKIWP	49947	1779.0	>80%	74.9	+	+	+	+
ARP7111.108	RQANFLGKIWP SHKG	49948	1739.0	>80%	65.5%	+	+	+	+
ARP7111.109	FLGKIWP SHKGRPGN	49949	1695	>80%	67.6%	+	+	+	+
ARP7111.110	IWP SHKGRPGN FLQS	49950	1724.3	>80%	73.0%	+	+	+	+
ARP7111.111	HKGRPGN FLQSRPEP	49951	1720.8	>80%	73.4%	+	+	+	+
ARP7111.112	PGN FLQSRPEPTAPP	49952	1607.7	>80%	65.2%	+	+	+	+

Repository Reference	Amino Acid Sequence	NIH Cat #	Molecular Weight	HPLC Purity	Peptide Content	Solubility Data			
						Water	PBS	10% Acetic Acid	DMSO
ARP7111.113	LQSRPEPTAPPEESF	49953	1685.0	>80%	76.8%	+	+	+	+
ARP7111.114	PEPTAPPEESFRFGE	49954	1687.8	>80%	63.2%	+	+	+	+
ARP7111.115	APPEESFRFGEETTT	50887	1698.9	>80%	67.0%	+	+	+	+
ARP7111.116	ESFRFGEETTTPSQK	49956	1745	>80%	63.8%	+	+	+	+
ARP7111.117	FGREETTTPSQKQEI	49957	1691.6	>80%	70.8%	+	+	+	+
ARP7111.118	TTTPSQKQEPIDKEL	49958	1715.1	>80%	70.3%	+	+	+	+
ARP7111.119	SQKQEPIDKELYPLA	49959	1760	>80%	67.4%	+	+	+	+
ARP7111.120	EPIDKELYPLASLRS	49960	1731.0	>80%	70.1%	+	+	+	+
ARP7111.121	KELYPLASLRSFLGN	49961	1709.0	>80%	65.9%	+	+	+	+
ARP7111.122	PLASLRSFLGNDPSS	49962	1562.0	>80%	70.3%	+	+	+	+
ARP7111.123	LRSFLGNDPSSQ	49963	1320.8	>80%	66.8%	+	+	+	+