Data Sheet (Cat.No.TP1546)

TargetMol

HIF-1 alpha (556-574) TFA (1201633-99-9 free base)

Chemical Properties

CAS No. :

Formula: C103H151D2F3N20O36S2

Molecular Weight: 2368.62

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	This is a hypoxia-inducible factor-1 (HIF-1 a) 19-mer fragment. HIF-1 functions as master regulator of response to oxygen homeostasis. Hypoxia-induced gene expression is initiated when HIF-1 subunit is stabilized in response to a lack of oxygen. This part of HIF-1 binds to the von Hippel-Lindau factor (VHL) an E3 ubiquitin ligase, and the proline 564 is absolutely critical to the binding process.

Solubility Information

Solubility	H2O: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4222 mL	2.1109 mL	4.2219 mL
5 mM	0.0844 mL	0.4222 mL	0.8444 mL
10 mM	0.0422 mL	0.2111 mL	0.4222 mL
50 mM	0.0084 mL	0.0422 mL	0.0844 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ehrismann D, et al. Studies on the activity of the hypoxia-inducible-factor hydroxylases using an oxygen consumption assay. Biochem J. 2007 Jan 1;401(1):227-34.

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