Data Sheet (Cat.No.T16370)

TargetMol

OABK hydrochloride

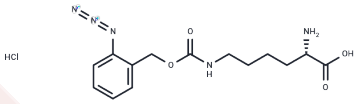
Chemical Properties

CAS No. : 1984862-48-7

Formula: C14H20ClN5O4

Molecular Weight: 357.79

Storage: 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	OABK hydrochloride is a small-molecule switch used to control protein activity.
Targets(IC50)	Others
In vitro	Introducing OABK at position K206 inhibits FLuc enzymatic activity by restricting the access of adenosine triphosphate (ATP) to the active site until the enzyme is deprotected and activated through phosphine treatment. Through the site-specific incorporation of an ortho-azidobenzyloxycarbonyl lysine (OABK)A small-molecule switch for the activation of protein function. Genetically encoded OABK in conjunction with small-molecule activation allows for the conditional regulation of intracellular protein maturation. Deprotection causes the formation of lysine and when OABK is incorporated into a protein, the formation of the active wild-type protein. Incorporation of OABK (0.5 mM) at position K85 of EGFP suppresses fluorophore formation until the native lysine is generated through small-molecule activation (the model is based on Protein Data Bank (PDB). The incorporation of OABK into FLuc blocks the luciferase activity in the absence of small-molecule activation, as determined by a Bright-Glo luciferase assay.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7949 mL	13.9747 mL	27.9494 mL
5 mM	0.559 mL	2.7949 mL	5.5899 mL
10 mM	0.2795 mL	1.3975 mL	2.7949 mL
50 mM	0.0559 mL	0.2795 mL	0.559 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

Luo J, et al. Small-molecule control of protein function through Staudinger reduction. Nat Chem. 2016 Nov;8(11): 1027-1034.

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