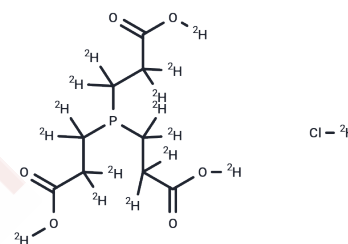


TCEP-D16 hydrochloride

Chemical Properties

CAS No. :	1174025-33-2
Formula:	C ₉ H ₁₆ ClO ₆ P
Molecular Weight:	302.75
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	TCEP-D16 hydrochloride is the deuterated form of TCEP hydrochloride. TCEP hydrochloride (T7087) [Tris (2-carboxyethyl)phosphine hydrochloride] is a non-thiol reducing agent that offers greater stability and induces faster S-S bond reduction compared to other chemical reducing agents. As a trialkylphosphine, it selectively reduces protein degradation without altering their characteristics or interacting with thiol-directing agents in the reaction mixture. Additionally, TCEP hydrochloride (T7087) is frequently used as a reducing agent in DNA/AuNP chemistry.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3031 mL	16.5153 mL	33.0306 mL
5 mM	0.6606 mL	3.3031 mL	6.6061 mL
10 mM	0.3303 mL	1.6515 mL	3.3031 mL
50 mM	0.0661 mL	0.3303 mL	0.6606 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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