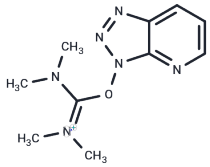
Data Sheet (Cat.No.T21354)

TargetMol

HATU

Chemical Properties



CAS No. :	200731-31-3
Formula:	C10H15F6N6OP
Molecular Weight:	380.23
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	HATU is a reagent used in peptide coupling chemistry to generate an active ester from a carboxylic acid. HATU is used along with Hünig's base (N,N-diisopropylethylamine, DIPEA) to form amide bonds.
Targets(IC50)	Others

Solubility Information

Solubility	H2O: Insoluble DMSO: 18.33 mg/mL (48.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.630 mL	13.1499 mL	26.2999 mL
5 mM	0.526 mL	2.630 mL	5.260 mL
10 mM	0.263 mL	1.315 mL	2.630 mL
50 mM	0.0526 mL	0.263 mL	0.526 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

Aaronson JG, Klein LJ, Momose AA, O'Brien AM, Shaw AW, Tucker TJ, Yuan Y, Tellers DM. Rapid HATU-mediated solution phase siRNA conjugation. Bioconjug Chem. 2011 Aug 17;22(8):1723-8. doi: 10.1021/bc2001227. Epub 2011 Jul 11. PubMed PMID: 21744777.

Hołyńska M, Kubiak M. Supramolecular motifs in the first structures of organic carboxylate salts of 1-(diaminomethylene)thiourea (HATU). Acta Crystallogr C. 2009 Aug;65(Pt 8):o410-3. doi: 10.1107/S0108270109026390. Epub 2009 Jul 15. PubMed PMID: 19652326.

Xiao Z, Yang MG, Li P, Carter PH. Synthesis of 3-substituted-4(3H)-quinazolinones via HATU-mediated coupling of 4-hydroxyquinazolines with amines. Org Lett. 2009 Mar 19;11(6):1421-4. doi: 10.1021/ol802946p. PubMed PMID: 19243133.

Yung A, Papworth-Smith J, Wilkinson SM. Occupational contact urticaria from the solid-phase peptide synthesis coupling agents HATU and HBTU. Contact Dermatitis. 2003 Aug;49(2):108-9. PubMed PMID: 14641366.