Data Sheet (Cat.No.T37022)

TargetMol

Enteropeptidase Fluorogenic Substrate (trifluoroacetate salt)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	Enteropeptidase fluorogenic substrate is a substrate for enteropeptidase that contains a 7-amino-4-trifluoromethylcoumarin (AFC) moiety. Enteropeptidase is a serine protease expressed in the proximal small intestine of higher animals that converts inactive trypsinogen to active trypsin by endoproteolytic cleavage.1,2Enteropeptidase recognizes the highly specific amino acid sequence DDDDK on the fluorogenic substrate and cleaves after the lysine residue, releasing the AFC moiety. Enteropeptidase activity is quantified by fluorescent detection of AFC, which displays excitation/emission spectra of 380/500 nm.3
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 30 mg/mL,Sonication is recommended. Ethanol: 10 mg/mL,Sonication is recommended. DMF: 30 mg/mL,Sonication is recommended. PBS (pH 7.2): 2.5 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Reference

Pepeliaev, S., Krahulec, J., ?ernY, Z., et al.High level expression of human enteropeptidase light chain in Pichia pastorisJ. Biotechnol.156(1)67-75(2011)

Choi, M.-G., Lee, S., Chung, H.-S., et al.A fluorogenic method for measuring enteropeptidase activity: Spectral shift in the emission of GD4K-conjugated 7-amino-4-methylcoumarinBMB Rep.44(7)458-461(2011)

Gossrau, R.Cytochemistry of membrane proteasesHistochem J.17(7)737-771(1985)

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481