

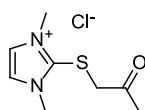
Product Data Sheet



Product Number **D003**
Revision Number **RN4.0**

Product Name 1,3-Dimethyl-2[(2-oxopropyl)thio]imidazolium chloride
Synonym NTU283
Application Inhibitor for transglutaminase
Efficacy D003 is a weak blocker of tissue transglutaminase with an IC₅₀ of about 1.0 µM
Molecular Formula C₈H₁₃ClN₂OS (free cation: C₈H₁₃N₂OS⁺)
Molecular Weight 220.72 (free cation: 185.27)

Chemical Structure



Purity by HPLC >95 % (214 nm)
Solubility Dissolve e.g. 3.65 mg in 330.7 µl PBS buffer to obtain a 50 mM solution
Appearance White solid
Storage Store at -20°C, desiccate
Related Products A101 Abz-NE(CAD-DNP)EQVSPLTLLK-OH
A102 Abz-APE(CAD-DNP)QEA-OH
T006 Guinea pig liver transglutaminase
T002 Human tissue transglutaminase (hTG2, recombinant in *E. coli*)
T007 Coagulation factor XIII purified from human plasma (pFXIII, A₂B₂)
T027 Human blood coagulation Factor XIII, recombinant
Reference(s) Freund, K. *et al. Biochemistry* **1994**, 33, 10109.
Skill, N. *et al. J. Biol. Chem.* **2004**, 279, 47754.
Hugues L.-J. *et al. J. Biol. Chem.* **2012**, 287, 18005.
Sánchez-Lara A. *et al. Vet Pathol.* **2015**, 52, 513.
Release date 02 December 2021

NOTE INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.