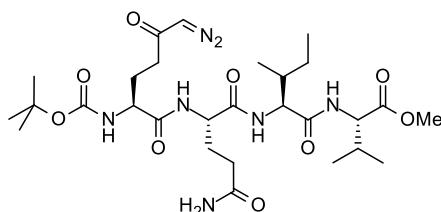


Product Number **B003**
Revision Number **RN3.1**

Product Name Boc-DON-Gln-Ile-Val-OMe, "Boc-DON"
Application Site specific inhibitor of tissue transglutaminase
Molecular Formula C₂₈H₄₇N₇O₉
Molecular Weight 625.71
Chemical Structure



Purity by HPLC >95 % (214 nm)

Solubility 100 µM in 0.1% (v/v) DMSO / aqueous buffers.

Pre-dissolve the complete 10 mg (adjust to the weight given on the vial) in 160 µL DMSO. Take e.g. 10 µL of the 100 mM stock solution and add 9990 µL buffer or assay components to obtain your final assay solution (100 µM).

DMSO stock solutions are sterile and can be stored at -20°C for at least 6 months. To avoid too many freeze-thaw cycles, we strongly recommend storage of aliquots.

Alternatively, higher concentrations of 1.5 mM in 2% (v/v) DMSO / aqueous buffers are feasible.

Selectivity & Cytotoxicity

IC ₅₀ in µM					
hTG2	hTG1	hTG3	hTG6	FXIIIa	mouse TG2
0.3	1.1	20	0.98	24	0.6

Data taken from Schaertl *et al.*^[1]

Appearance Yellow solid

Storage Store at -20°C, desiccate

Related Products A102 Abz-APE(CAD-DNP)QEA-OH
T006 Guinea pig liver transglutaminase
T002 Rec. human tissue transglutaminase (His6-rhTG2)
Z006 Z-DON-Val-Pro-Leu-OMe, "Z-DON"

Reference(s) [1] Schaertl, S. *et al. J. Biomol. Screen.* **2010**, 15, 478.
[2] Verhaar, R. *et al. Neurochem. Int.* **2011**, 58, 785.
[3] McConoughey, S. J. *et al. EMBO Mol. Med.* **2010**, 2, 349.
[4] Johnson K. A. *et al. Circ Res.* **2008**, 102, 529.
[5] Mádi A. *et al. Anal. Biochem.* **2005**, 343, 256.
[6] Hugues L.-J. *et al. J. Biol. Chem.* **2012**, 287, 18005.

Product Data Sheet



Product Number **B003**
Revision Number **RN3.1**

Release Date 29 March 2022

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