

Product Data Sheet



Product Number **Z013**
Revision Number **RN3.0**

Product Name Z-MA-QPL-OMe
Synonym ZED754
Application Site specific irreversible inhibitor of tissue transglutaminase. Peptidic inhibitor containing an electrophilic Michael acceptor (MA) warhead.

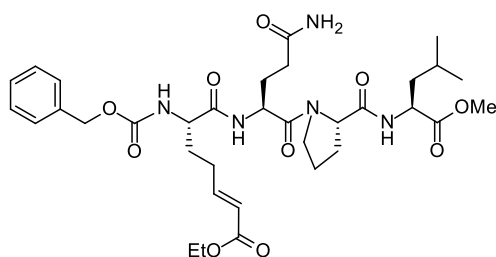
Cbz-analogon (Carboxybenzyl, Z) to B015 (Biotin-Ahx-MA-QPL-OMe).

Efficacy TG2: IC₅₀ = 224 nM (Transglutaminase Assay Kit **T036**; Zedira, Germany)
TG6: IC₅₀ = 486 nM (Transglutaminase Assay Kit **T036**; Zedira, Germany)

Molecular Formula C₃₄H₄₉N₅O₁₀

Molecular Weight 687.78

Chemical Structure



Purity by HPLC >95 % (214 nm)

Solubility 200 µM in 2% (v/v) DMSO / aqueous buffers.

Pre-dissolve e.g. 1.30 mg (1.89 µmol) in 189 µl DMSO - dilute e.g. 20 µl of that stock solution (10 mM) with 980 µl buffer to obtain a 200 µM solution.

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

Appearance Off-white solid

Storage Store at -20°C, desiccate

Related Products B011 Biotin-MA-QPL-OMe
T022 Human tissue transglutaminase
T002 Rec. human tissue transglutaminase (His6-rhTG2)
T051 Open tTG™

Reference(s) Protein Data Bank (PDB) entry: 3S3P

Further please refer to:

“Inhibitors of transglutaminase 2: A therapeutic option in celiac disease”

(http://zedira.com/data/newsletter/newsletter_20080902.pdf)

Release date 30 Dezember 2021

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