GP78

Cat. # UB310

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Background GP78 is an E3 ubiquitin ligase involved in endoplasmic reticulum-associated degradation (ERAD). This construct consists of the cytosolic domain of GP78 (residues 309–643) fused to an N-terminal GST tag.

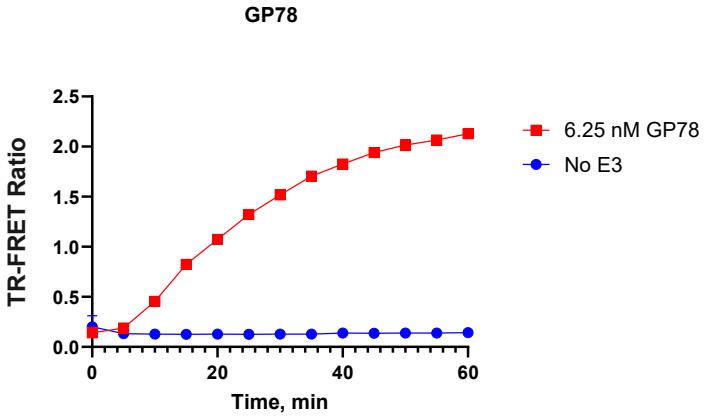
Alternate Names Autocrine Motility Factor Receptor (AMFR), E3 Ubiquitin-Protein Ligase AMFR, RING Finger Protein 45 (RNF45), RING-Type E3 Ubiquitin Transferase AMFR, AMF Receptor, SPG89

Application(s) Ubiquitin ligation reactions

Product Specifications

Affinity tag	N-terminal GST tag
Purity	> 80% by SDS-PAGE
Molecular Weight	72 kDa
Quantity	25 µg
Species	Human
Expression System	*E. coli*
Physical State	Liquid
Buffer	45 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 10% glycerol, 3 mM DTT
Activity	A typical enzyme concentration of 2-100 nM is used for in vitro conjugation, depending on assay conditions
Stability & Storage	> 6 months at -80°C. Avoid repeated freeze/thaw cycles

Product QC



Activity Assay of GP78. GP78 at a concentration of 6.25 nM was tested in a TR-FRET assay for 60 minutes, yielding a signal-to-background ratio of 15-fold.

References

1. Fang S. et al., Proc. Natl. Acad. Sci. U.S.A. 98 (25),14422-14427 (2001)
2. Zhang T. et al., PLoS One 10 (3), e0118448 (2015)
3. Joshi V. et al. Front. Cell Neurosci. 11, 259 (2017)

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