Data Sheet (Cat.No.TMPJ-01022)

TargetMol

SUMO3 Protein, Human, Recombinant (HEK293, His)

General Information

Synonyms:	SMT3 homolog 1;Smt3A;Small ubiquitin-related modifier 3;Ubiquitin-like protein SMT3A; SUMO-3;SUMO-2
Protein Construction:	Ser2-Gly92
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P55854
Molecular Weight:	18-28 kDa (reducing condition)
AA Sequence:	Ser2-Gly92

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	20mM Citrate, 10% Trehalose，5% Mannitol，50mM NaCl, 0.05% Tween80，pH 3.5

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Small ubiquitin-like modifier (SUMO), also known as SUMO homologue and SMT3, is a member of the superfamily of ubiquitin-like polypeptides that become covalently attached to various intracellular target proteins as a way to alter their function, location, and/or half-life. Small ubiquitin-like modifiers include SUMO1, SUMO2, SUMO3, and SUMO4. Except for SUMO4, all other SUMOs are ubiquitously expressed, including in the brain. In human, SUMO2 and SUMO3 are two highly homologous proteins, collectively called SUMO2/3. Several studies suggest that SUMO3

are associated with pathogenesis in several neurological diseases, including Alzheimer's disease, Parkinson's disease, and cerebral ischemia/stroke.

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