

FKBP25/FKBP3 Protein, Human, Recombinant (GST)

General Information

Synonyms:	FKBP-25;PPIase;FKBP25;FK506 binding protein 3;FKBP-3
Protein Construction:	A DNA sequence encoding the human FKBP3 (Q00688) (Ala 2-Asp 224) was fused with the GST tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	Q00688
Molecular Weight:	52 kDa (predicted); 48 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 50 mM tris, 0.15M NaCl, 0.5 mM GSH, pH 8.0. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:
It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

FKBP3 is a member of FK506-binding proteins (FKBPs). miR-145-5p overexpression suppressed cell proliferation of NSCLC cells which was abrogated by FKBP3 overexpression, that FKBP3/Sp1/HDAC2/p27 control cell proliferation during NSCLC development.

Reference

- Wiederrecht G., et al., 1992, Biochem. Biophys. Res. Commun. 185: 298 - 303.
Dephoure N., et al., 2008, Proc. Natl. Acad. Sci. USA. 105:10762-7.
Gauci S., et al., 2009, Anal. Chem. 81:4493-4501.
Choudhary C., et al., 2009, Science. 325:834-840.

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