Recombinant Human HSP27/HSPB1 Protein (His Tag)

Catalog Number:PKSH031656

Note: Centrifuge before opening to ensure complete recovery of vial contents.

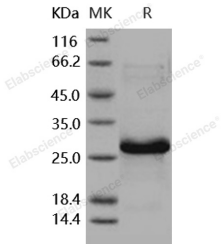
Description

Synonyms	CMT2F;HEL-S-102;HMN2B;HS.76067;Hsp25;HSP27;HSP28;SRP27
Species	Human
Expression Host	E.coli
Sequence	Met 1-Lys205
Accession	NP_001531.1
Calculated Molecular Weight	28.0 kDa
Observed molecular weight	28 kDa
Tag	C-His

Properties

Purity	> 97 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 20mM HEPES, 0.1M KCl, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

Background

HSP27 is a member of the small heat shock protein family, which also includes HSP25 and the alpha -crystallins. HSP27 forms a large oligomer and the extent of phosphorylation plays a role in determining specific functions. HSP27 also functions as an anti-apoptotic molecule, regulating apoptosis through direct interaction with key components of the apoptotic pathway. HSP27 binds and sequesters cytochrome c released from the mitochondria in response to an apoptotic stimulus. This prevents the proper assembly of the apoptosome and subsequently, the activation of procaspase-9 and procaspase-3.

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