
Product Data Sheet

Product Name: HSP27 Mouse
 Cat. No.: GP26362
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	HSPB1, CMT2F, HMN2B, HSP27, HSP28, HSP25, Heat shock protein beta-1, Heat shock 27 kDa protein, Stress-responsive protein 27, SRP27, HS.76067, DKFZp586P1322.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMTERRVP FLLRSPSWE PFRDWYPAHS RLFDQAFGVP RLPDEWSQWF SAAGWPGYVR PLPAATAEGP AAVTLAAPAF SRALNRQLSS GVSEIRQTAD RWRVSLDVNH FAPEELTVKT KEGVVEITGK HEERQDEHGY ISRCFTRKYT LPPGVDPTLV SSSLSPGTL TVEAPLPKAV TQSAEITIPV TFEARAQIGG PEAGKSEQSG AK.		
Formulation	The HSP27 protein solution (1mg/ml) contains 20mM Tris-HCl (pH8.0), 10% glycerol and 1mM DTT.		

Introduction

HSP27 or Estrogen-Regulated 24K protein is a part of the mammalian small heat shock protein family. The protein is expressed constitutively in many tissues and its expression is increased to high levels after different types of stress including high temperatures, toxic metals, drugs and oxidants. Furthermore, Hsp27 is phosphorylated in vivo on three phosphorylation sites (Ser15, Ser78 and Ser82) by protein kinases including MAPKAP kinase 2 and the stress-activated protein kinase SAPK2 (p38).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

HSP27 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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chain containing 232 amino acids (1-209 a.a) and having a molecular mass of 25.4kDa.
HSP27 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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