

Product Information

Mortalin (47-end), GST-tagged, human recombinant, expressed in *Sf9* insect cells

Catalog Number **SRP5102**
Storage Temperature -70°C

Synonyms: HSPA9, CSA, GRP75, HSPA9B, MGC4500, MOT, mot-2, MOT2, MTHSP75, PBP74

Product Description

Mortalin is a mitochondrial chaperone and a member of the heat shock protein 70 family that is constitutively expressed in cells. Mortalin plays a central role in mitochondrial biogenesis through its capacity to direct the import of nuclear-encoded proteins into the mitochondria. Mortalin plays a role in the control of cell proliferation and elevated levels of mortalin have correlated with malignant transformation and poor cancer prognosis. Mortalin can support cancer cell resistance to complement-dependent cytotoxicity.¹ Mortalin expression was decreased in the mitochondrial fraction of neurons from the substantia nigra of Parkinson disease patients.²

Recombinant human Mortalin (47-end) protein was expressed in *Sf9* insect cells using an N-terminal GST tag. The gene accession number is NM_004134. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~97 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

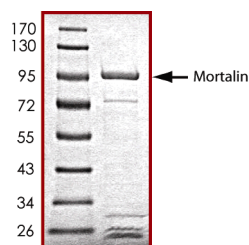
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Pilzer, D. et al., Mortalin inhibitors sensitize K562 leukemia cells to complement-dependent cytotoxicity. *Int. J. Cancer*, **126**, 1428-1435 (2010).
2. De Mena, L. et al., Mutational screening of the mortalin gene (HSPA9) in Parkinson's disease. *J. Neural Transm.*, **116**, 1289-1293 (2009).

FF,DKF,MAM 10/11-1