

Product Information

MO25 α , GST-tagged, human recombinant, expressed in Sf9 insect cells

Catalog Number **SPR5207**
Storage Temperature $-70\text{ }^{\circ}\text{C}$

Synonyms: CAB39, CGI-66, FLJ22682

Product Description

MO25 α (mouse protein 25 alpha) is a 40 kDa protein that interacts with the STE20-related adaptor-alpha (STRAD α) pseudo kinase to form a regulatory complex capable of stimulating the activity of the LKB1 tumor suppressor protein kinase.¹ LKB1 plays a critical role in cell proliferation, polarity, and energy metabolism. LKB1 is mutated in the inherited Peutz-Jeghers cancer syndrome (PJS). MO25 α binds directly to a conserved Trp-Glu-Phe sequence at the STRAD α C-terminus, and markedly enhances the binding of STRAD α to LKB1, thereby, increasing LKB1 catalytic activity.²

Recombinant, full-length, human MO25 α was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_016289. 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: ~63 kDa

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

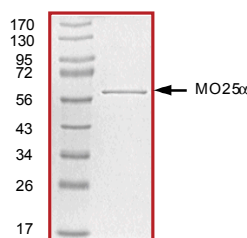
Precautions and Disclaimer

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 $-70\text{ }^{\circ}\text{C}$ is recommended. After opening, aliquot into smaller quantities and store at $-70\text{ }^{\circ}\text{C}$. Avoid repeated handling and multiple freeze/thaw cycles.

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



References

1. Boudeau, J. et al., Analysis of the LKB1-STRAD-MO25 complex. *J. Cell Sci.*, **117**(Pt 26), 6365-75 (2004).
2. Milburn, C.C. et al., Crystal structure of MO25 alpha in complex with the C terminus of the pseudo kinase STE20-related adaptor. *Nat. Struct. Mol. Biol.*, **11**(2), 193-200 (2004).

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