

Product Information

IRAK3, GST-tagged, human recombinant, expressed in *Sf9* cells

Catalog Number **SRP5353**
Storage Temperature -70°C

Synonym: IRAK-M

Product Description

IRAK3 or interleukin-1 receptor-associated kinase 3 is a member of the interleukin-1 receptor-associated kinase protein family and an essential component of the Toll/IL-R immune signal transduction pathways. IRAK3 is primarily expressed in monocytes and macrophages, and functions as a negative regulator of Toll-like receptor signaling.¹ IRAK-M mediates critical aspects of innate immunity that result in an immunocompromised state during sepsis.² Mutations in IRAK3 are associated with a susceptibility to asthma.

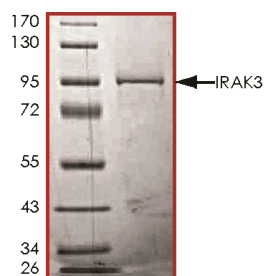
Recombinant full-length human IRAK3 was expressed by baculovirus in *Sf9* insect cells using an N-terminal GST-tag. The gene accession number is BC057800. It is supplied in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~96 kDa

The enzymatic activity of this product has not been determined.

Figure 1.

SDS-PAGE Gel of Typical Lot:
 $\geq 70\%$ (SDS-PAGE, densitometry)



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.

References

1. Del Fresno, C. et al., Tumor cells deactivate human monocytes by up-regulating IL-1 receptor associated kinase-M expression via CD44 and TLR4. *J. Immun.*, **174**, 3032-3040 (2005).
2. Deng, J.C. et al., Sepsis-induced suppression of lung innate immunity is mediated by IRAK-M. *J. Clin. Invest.*, **116**, 2532-2542 (2006).

RC,MAM 10/12-1