

RIPK2 Protein, Human, Recombinant (His)

General Information

Synonyms:	Receptor-interacting serine/threonine-protein kinase 2;CARD-containing interleukin-1 beta-converting enzyme-associated kinase (CARD-containing IL-1 beta ICE-kinase);RIP-like-interacting CLARP kinase;RIP2;RIPK2;RICK;CARDIAK;Tyrosine-protein kinase RIPK2;Receptor-interacting protein 2 (RIP-2)
Protein Construction:	1-540 aa
Species:	Human
Expression Host:	E. coli
Accession:	O43353
Molecular Weight:	65.2 kDa (predicted)
AA Sequence:	MNGEAI CSALPTIPYHKLADRLYLSRGASGT VSSARHADWRVQVAVKHLHIHTPLLDSEKDV LREAEILHKA RFSYILPILGICNEPEFLGIVTEYMPNGSLNELLHRKTEYPDVAWPLRFRILHEIALGVNYLHNMTPLLHDLKT QNILLDNEFHVKIADFGLSKWRMMSLSQSRSSKSAPEGGTIYMPPENYEPGQKSRAKHDYISYAVITWEVL SRKQPFEDVTNPLQIMYSVSQGHVPVINEESLPYDIPHRARMISLIESGWAQNPDERPSFLKCLIELEPVLRTFE EITFLEAVIQLKTKLQSVSSAIHLCDKKKMELSLNIPVNHGPGQEESGSSQLHENS GPETSRLPAPQDND F LSRKAQDCYFMKLHHCPGNHSDWSTISGSQRAAFCDHKTTPCSSAIINPLSTAGNSERLQPGIAQQW IQSKR EDIVNQMTACLNQSLDALLSRDLIMKEDYELVSTKPTRTSKVRQLLDTTDIQGEFAKVIVQKLKDNKQMGL QPYPEILVVSRSPLNLLQNKSM

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

Protein Background

Serine/threonine/tyrosine kinase that plays an essential role in modulation of innate and adaptive immune responses. Upon stimulation by bacterial peptidoglycans, NOD1 and NOD2 are activated, oligomerize and recruit RIPK2 through CARD-CARD domains. Contributes to the tyrosine phosphorylation of the guanine exchange factor ARHGEF2 through Src tyrosine kinase leading to NF-kappaB activation by NOD2. Once recruited, RIPK2 autophosphorylates and undergoes 'Lys-63'-linked polyubiquitination by E3 ubiquitin ligases XIAP, BIRC2 and BIRC3. The polyubiquitinated protein mediates the recruitment of MAP3K7/TAK1 to IKBKG/NEMO and induces 'Lys-63'-linked polyubiquitination of IKBKG/NEMO and subsequent activation of IKBKB/IKKB. In turn, NF-kappa-B is released from NF-kappa-B inhibitors and translocates into the nucleus where it activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. Plays also a role during engagement of the T-cell receptor (TCR) in promoting BCL10 phosphorylation and subsequent NF-kappa-B activation. Plays a role in the inactivation of RHOA in response to NGFR signaling.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481