

Recombinant Mouse Cracr2a Protein, Myc/DDK-tagged

Cat. No. Cracr2a-2303M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length calcium release activated channel regulator 2A (Cracr2a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Ca ²⁺ -binding protein that plays a key role in store-operated Ca ²⁺ entry (SOCE) in T-cells by regulating CRAC channel activation. Acts as a cytoplasmic calcium-sensor that facilitates the clustering of ORAI1 and STIM1 at the junctional regions between the plasma membrane and the endoplasmic reticulum upon low Ca ²⁺ concentration. It thereby regulates CRAC channel activation, including translocation and clustering of ORAI1 and STIM1. Upon increase of cytoplasmic Ca ²⁺ resulting from opening of CRAC channels, dissociates from ORAI1 and STIM1, thereby destabilizing the ORAI1-STIM1 complex.
Molecular Mass	35.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Cracr2a calcium release activated channel regulator 2A [Mus musculus (house mouse)]
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Official Symbol	Cracr2a
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Synonyms	Cracr2a; calcium release activated channel regulator 2A; Gm462; Efcab4; Gm1073; Efcab4b; EF-hand calcium-binding domain-containing protein 4B; EF-hand calcium binding domain 4B
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Gene ID	381812
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mRNA Refseq	NM_001033464
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Protein Refseq	NP_001028636
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UniProt ID	Q3UP38
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