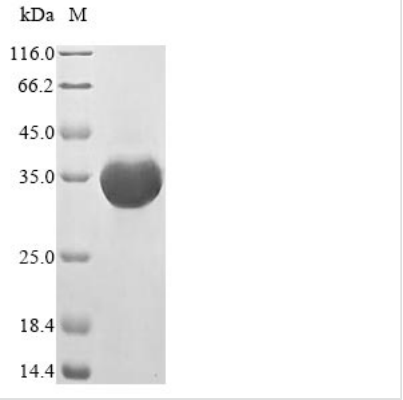
Recombinant Mouse Formyl peptide receptor 2 (Fpr2), partial

Product Code	CSB-EP008855MO1
Relevance	High affinity receptor for N-formyl-methionyl peptides (FMLP), which are powerful neutrophils chemotactic factors. Stimulate chemotaxis in immune cells to site of infection or tissue damage upon recognition of several ligands, such as FMLP, or ligand involved in cell damage, disease or inflammation.
Abbreviation	Recombinant Mouse Fpr2 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O88536
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MESNYSIHLNGSEVVVYDSTISRVLWILS
Research Area	Others
Source	E.coli
Target Names	Fpr2
Protein Names	Formylpeptide receptor-related sequence 2 Lipoxin A4 receptor-like protein N-formylpeptide receptor-like 2 Fpr-rs2
Expression Region	1-29aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-GST-tagged and C-terminal Myc-tagged
Mol. Weight	33.3 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The expression vector recombined with the recombinant DNA was transformed into the E.coli for expression. The recombinant DNA resulted from the fusion of the gene coding for the 1-29aa of the mouse Fpr2 protein and the N-terminal 10xHis-GST tag and C-terminal Myc tag gene. The product was purified and isolated to get the recombinant mouse Fpr2 protein with N-terminal 10xHis-GST tag and C-terminal Myc tag. This recombinant Fpr2 protein's purity reaches up to 85%. Under SDS-PAGE condition, this recombinant Fpr2 protein showed a band with a molecular weight of about 30-40 kDa on the gel.

Fpr2 is a gene encoding an enzyme named formyl peptide receptor 2(abbreviated Fpr2) and belongs to G-protein coupled receptor 1 family located on the surface of many cell types of various animal species. The formyl peptide receptors (FPRs) play an important functional role in host defense and inflammation by regulating the activation of phagocytes. Fpr2 is primarily expressed in neutrophils and not detected in vomeronasal neurons. An increasing body of evidence suggests that FPR2 plays a key role in immune resolution. It has been reported that FPR2 is activated by various ligands, such as pro-resolving eicosanoids (lipoxins and resolvins), and a synthetic hexapeptide, Trp-Lys-Tyr-Met-Val-D-Met-NH2 (WKYMVm).

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.