Recombinant Human N-acylneuraminate cytidylyltransferase (CMAS)

Product Code	CSB-BP822785HU
Abbreviation	CMAS
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.	Q8NFW8
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MDSVEKGAAT SVSNPRGRPS RGRPPKLQRN SRGGQGRGVE KPPHLAALIL ARGGSKGIPL KNIKHLAGVP LIGWVLRAAL DSGAFQSVWV STDHDEIENV AKQFGAQVHR RSSEVSKDSS TSLDAIIEFL NYHNEVDIVG NIQATSPCLH PTDLQKVAEM IREEGYDSVF SVVRRHQFRW SEIQKGVREV TEPLNLNPAK RPRRQDWDGE LYENGSFYFA KRHLIEMGYL QGGKMAYYEM RAEHSVDIDV DIDWPIAEQR VLRYGYFGKE KLKEIKLLVC NIDGCLTNGH IYVSGDQKEI ISYDVKDAIG ISLLKKSGIE VRLISERACS KQTLSSLKLD CKMEVSVSDK LAVVDEWRKE MGLCWKEVAY LGNEVSDEEC LKRVGLSGAP ADACSTAQKA VGYICKCNGG RGAIREFAEH ICLLMEKVNN SCQK
Source	Baculovirus
Target Names	CMAS
Protein Names	Recommended name: N-acylneuraminate cytidylyltransferase EC= 2.7.7.43 Alternative name(s): CMP-N-acetylneuraminic acid synthase Short name= CMP-NeuNAc synthase
Expression Region	1-434
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	The enzyme encoded by this gene catalyzes the activation of Neu5Ac to Cytidine 5-prime-monophosphate N-acetylneuraminic acid (CMP-Neu5Ac), which provides the substrate required for the addition of sialic acid. Sialic acids of cell surface glycoproteins and glycolipids play a pivotal role in the structure and function of animal tissues. The pattern of cell surface sialylation is highly regulated during embryonic development, and changes with stages of differentiation. Studies of a similar murine protein suggest that this protein localizes to the nucleus.

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.