

32-8024: Recombinant Human Haptoglobin/Zonulin (C-6His)(Discontinued)

Gene : HP
Gene ID : 3240
Uniprot ID : P00738

Description

Source: Human Cells.
MW :15.9&28.3kD.

Recombinant Human Haptoglobin/Zonulin is produced by our Mammalian expression system and the target gene encoding Val19-Gln160(alpha chain)&Ile162-Asn406(beta chain) is expressed with a 6His tag at the C-terminus. Haptoglobin(HP) is a secreted protein which is a member of the peptidase S1 family of serine proteases. As a result of hemolysis, hemoglobin is found to accumulate in the kidney and is secreted in the urine. Haptoglobin captures, and combines with free plasma hemoglobin to allow hepatic recycling of heme iron and to prevent kidney damage. Haptoglobin also acts as an Antimicrobial; Antioxidant has antibacterial activity and plays a role in modulating many aspects of the acute phase response. Hemoglobin/haptoglobin complexes are rapidly cleared by the macrophage CD163 scavenger receptor expressed on the surface of liver Kupfer cells through an endocytic lysosomal degradation pathway. Uncleaved haptoglobin, also known as zonulin, plays a role in intestinal permeability, allowing intercellular tight junction disassembly, and controlling the equilibrium between tolerance and immunity to non-self antigens.

Product Info

Amount : / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of PBS, 1mM DTT, pH7.4.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : VDSGNDVTDIADDGCPKPPEIAHGYVEHSVRYQCKNYYKLRTEGDGVYTLNDKKQWINKAVGDKLPECEADD
GCPKPPEIAHGYVEHSVRYQCKNYYKLRTEGDGVYTLNNEKQWINKAVGDKLPECEAVCGKPKNPANPVQ&IL
GGHLDAGKSFQWQAKMVSHHNLTTGATLINEQWLLTTAKNLFNLHSENATAKDIAPTLTLYVGGKQLVEIEKVV
LHPNYSQVDIGLIKQKQVSVNERVMPICLPSKDYAEVGRVGYVSGWGRNANFKFTDHLKYVMPLVADQDQCI
RHYEGSTVPEKTPKSPVGVQPILNEHTFCAGMSKYQEDTCYGDAGSAFAVHDLLEEDTWYATGILSFDKSCAV
AEYGVYVKVTSIQDWWQKTIENVDHHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.