

DATASHEET Version 20181206

MIA-2, Human

Cat. No.: Z03337-1

Size: 1.0 mg

Synonyms: Human Melanoma Inhibitory Activity-2;

Human MIA-2

Description:

Melanoma inhibitory activity protein 2(MIA-2) is a secreted cytokine that is highly expressed in the liver and weakly in the testis. It is a member of the MIA/OTOR family. Members of this family such as MIA, OTOR, and TANGO share a Src homology-3 (SH3)-like domain. Melanoma inhibitory activity 2 is mapped to the gene locus of human chromosome 14q13. MIA and OTOR are exclusively expressed in the cartilage and cochlea, respectively, whereas MIA-2 is expressed exclusively in the liver. MIA-2 expression is transcriptionally regulated by the hepatocyte nuclear factor (HNF)-1-binding site). It is expressed in hepatocellular carcinoma (HCC) but not in bladder, breast, or prostate cancer. MIA-2 inhibits HCC growth and invasion, and consequently acts as a tumor suppressor.

Recombinant Human MIA-2 produced in *E. coli* cells is a single non-glycosylated polypeptide chain containing 100 amino acids. A fully biologically active molecule, rhMIA-2 has a molecular mass of 11.6 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

00001 LESTKLLADL KKCGDLECEA LINRVSAMRD YRGPDCRYLN 00041 FTKGEEISVY VKLAGEREDL WAGSKGKEFG YFPRDAVQIE 00081 EVFISEEIQM STKESDFLCL

Source: E. coli

Biological Activity: Not Available.

Molecular Weight: 11.6 kDa, observed by reducing

SDS-PAGE.

Formulation: Lyophilized after extensive dialysis

against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at

100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/μg, determined by LAL

method.

Storage: Lyophilized recombinant Human MIA-2 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, HumanMIA-2 should be stable up to 1 week at 4°C or up to 3 months at -20°C.For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.