BMA BIOMEDICALS

Peninsula Laboratories

MOTS-c (rat) ELISA

MOTS-c (mitochondrial ORF of the twelve S c) is a mitochondrial-derived peptide (MDP) of sixteen amino acids with distinct biological activities. MOTS-c has been shown to target the skeletal muscle and enhance glucose metabolism. As such, MOTS-c has implications in the regulation of obesity, diabetes, exercise, and longevity.

This ELISA was developed with serum from rabbits immunized with MOTS-c coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number: S-1522 (Lot A18172)

Host species: Rabbit IgG

Quantity: 96 tests

Format: Extraction-free kit for rat serum or plasma (EIAS type).

Shelf-life: One year from production date. Store refrigerated at 4° - 8°C.

Applications: This ELISA has been validated with the included reagents. It is intended to be used with samples of rat origin, following protocol V.
Please see **www.bma.ch** for protocols and general information.

Range: 0 – 100 ng/ml

Average IC_{50}: 3.0 ng/ml

Immunogen: Synthetic peptide H-Met-Lys-Arg-Lys-Glu-Met-Gly-Tyr-Ile-Phe-Phe-Ser-Gln-Arg-Thr-Leu-Arg-Asn-Pro-Leu-OH, coupled to carrier protein.

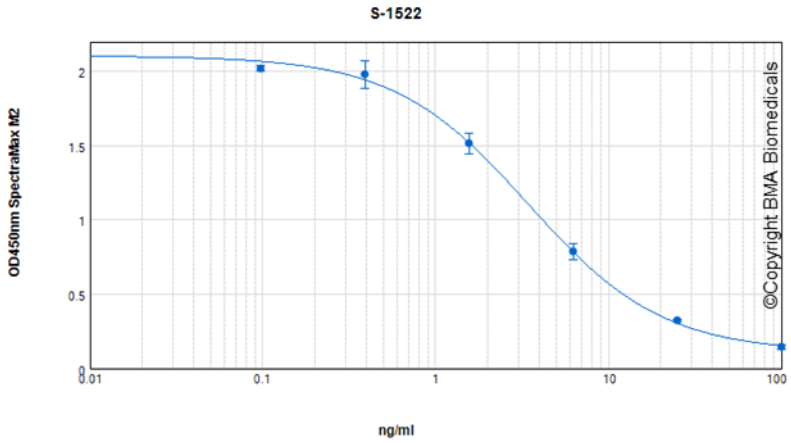
Protein database: rat-

Cross-Reactivity:

PEPTIDE	%
MOTS-c (rat)	100
MOTS-c (mouse)	0
MOTS-c (human)	0

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Typical titration curve of MOTS-c in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0.10 to 100ng/ml
Stock	1000	
S1	100.00	Add 100µl Stock + 900µl diluent
S2	25.00	Add 200µl S1 + 600µl diluent
S3	6.25	Add 200µl S2 + 600µl diluent
S4	1.56	Add 200µl S3 + 600µl diluent
S5	0.39	Add 200µl S4 + 600µl diluent
S6	0.10	Add 200µl S5 + 600µl diluent
S0	0.00	500µl diluent

Related products:

S-1518: ELISA, high sensitivity for extracted samples, (ms)
S-1524: ELISA, high sensitivity for extracted samples, (hu)
S-1519: ELISA, high sensitivity for extracted samples, (rt)
S-1526: ELISA, extraction-free for human serum and plasma samples

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.

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