Differentiation inducing peptide W9

W9 peptide(WP9QY) is circulated peptide constructed by 9 amino acids. W9 peptide is known to abrogate osteoclast differentiation. In our study W9 has an anabolic effect on cortical bone in wild-type mice. W9 peptide increased the production of cartilage matrix. W9 peptide enhanced ALP activity in MC3T3-E1 cells and mineralization. This product is prepared as peptide solutions induced specific activities. W9 peptide solution is directly applicable to in vitro assay.

Item	Catalog number	Packing size
Differentiation inducing peptide W9	47025000	1 mg × 2

*For bulk inquiry, please contact the sales office at your region.*For research purpose only. Not for therapeutic or diagnostic use.

Specifications

Differentiation inducing peptide W9

- Types of products Buffer
- Storage
- Concentration
- Specificy

Content

- Endotoxin Level
- :>10mg/mL
 - : ALP activity in MC3T3-E1 cells
 - : < 0.1 EU/ μ g

: peptide solution

: Frozen (< -70℃)

: 1 mg × 2

: PBS (-)





Support For Research OYC laboratory research

B)



MC3T3-E1 cells were cultured with 50-200 μ M W9 for 5 days to measure the alkaline phosphatase (ALP) activity. ALP activity was measured by the PNPP assay and expressed as the mean±SD. **: $\rho < 0.01$ vs. control (Dunnett's test)



negative W9 peptide peptide

MC3T3-E1 cells were cultured in the osteoblastic differential media with 200 mM W9 and negative control peptide for 21 days. Mineralization of MC3T3-E1 cells was evaluated by alizarin red staining.

Cartilage defects in rabbits (JW 25 weeks-old male) filled with collagen scaffolds. After 2 weeks, W9 peptide solution (5 mg) was injected intraarticular once per week for 2 weeks. Histological grading of the repaired tissue was evaluated by chondrocyte specific staining.

Vahicle

C)



Vehicle W9 Cartilage stained in Saflanin O

References

- 1. Takasaki W, et al. Nature Biotech. (1997) 15, 1266-1270.
- 2. Aoki K, et al. J Clinical Invest. (2006) 116, 1525-1534.
- 3. Patents WO2008/150025, WO2010/038610

Please contact the one that best suits your need.

ORIENTAL YEAST CO., LTD.

Corporate	He	adquarters (Tokyo, Japan)
URL	:	https://www.oyc.co.jp/bio/

E-mail	:	fbi@nisshin.com
Phone	:	+81-3-3968-1192
Fax	•	+81-3-3968-4863

OYC Americas, Inc.

(Vista,	USA)	
URL	:	https://www.oycus.com/
Phone	:	+1-760-659-5943
Fax	:	+1-760-201-8950

OYC EU B.V.

(Rotterc	lam, ⁻	The Netherlands)
URL	:	https://www.oyceu.com/
E-mail	:	info@oyceu.com
Phone	:	+31-10-4145777
Fax	:	+31-10-2134919

ORIENTAL YEAST INDIA Pvt. Ltd.

ORIENTAL YEAST CO., LTD.

URL	:	https://oycindia.com/
E-mail	:	info@oycindia.com
Phone	:	+91-22-27717107
Fax	:	+91-22-27717107



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