

Nos3-KO

品系全名 C57BL/6Smoc-*Nos3*^{em1Smoc}

目录号 NM-KO-18022

品系状态 活体

基因信息

基因名 Nos3	基因曾用名	eNOS; Nos-3; ecNOS; 2310065A03Rik
	NCBI ID	18127
	MGI ID	97362
	Ensembl ID	ENSMUSG00000028978
	基因标记细胞类型举例	大脑内皮细胞、肺内皮细胞
	人类同源基因	NOS3
	人类同源基因关联疾病	高血压病、糖尿病

品系描述

也叫eNos-KO。敲除Nos3基因exon10-11,建立Nos3基因敲除小鼠模型。敲除纯合子小鼠可用于研究伤口愈合，高血压和其他心血管缺陷，胰岛素抵抗，高脂血症和肺发育。

应用领域：伤口愈合，高血压和其他心血管缺陷，胰岛素抵抗，高脂血症和肺发育

*使用本品系发表的文献需注明: Nos3-KO mice (Cat. NO. NM-KO-18022) were purchased from Shanghai Model Organisms Center, Inc..

疾病预测

持续性胎儿循环综合征 Persistent Fetal Circulation Syndrome	近似模型的表型	MGI:3618597
	参考文献	Han RN, Babaei S, Robb M, Lee T, Ridsdale R, Ackerley C, Post M, Stewart DJ, Defective lung vascular development and fatal respiratory distress in endothelial NO synthase-deficient mice: a model of alveolar capillary dysplasia?. Circ Res. 2004 Apr 30;94(8):1115-23

肥厚型心肌病 Hypertrophic Cardiomyopathy	<p>近似模型的表型</p> <p>MGI:4367213</p> <p>注：该品系需与Nos1-KO(NM-KO-2111954)交配才可能获得预期表型</p> <p>参考文献</p> <p>Barouch LA, Cappola TP, Harrison RW, Crone JK, Rodriguez ER, Burnett AL, Hare JM, Combined loss of neuronal and endothelial nitric oxide synthase causes premature mortality and age-related hypertrophic cardiac remodeling in mice. <i>J Mol Cell Cardiol.</i> 2003 Jun;35(6):637-44</p>
肾性尿崩症 Nephrogenic Diabetes Insipidus	<p>近似模型的表型</p> <p>MGI:3789190</p> <p>注：该品系需与Nos1-KO(NM-KO-2111954)和Nos2-KO(NM-KO-18022)交配才可能获得预期表型</p> <p>参考文献</p> <p>Morishita T, Tsutsui M, Shimokawa H, Sabanai K, Tasaki H, Suda O, Nakata S, Tanimoto A, Wang KY, Ueta Y, Sasaguri Y, Nakashima Y, Yanagihara N, Nephrogenic diabetes insipidus in mice lacking all nitric oxide synthase isoforms. <i>Proc Natl Acad Sci U S A.</i> 2005 Jul 26;102(30):10616-21</p>
原发性高血压 Essential Hypertension	<p>近似模型的表型</p> <p>MGI:2174979</p> <p>参考文献</p> <p>Huang PL, Huang Z, Mashimo H, Bloch KD, Moskowitz MA, Bevan JA, Fishman MC, Hypertension in mice lacking the gene for endothelial nitric oxide synthase [see comments]. <i>Nature.</i> 1995 Sep 21;377(6546):239-42</p>

验证数据

暂无数据