Evaluation of Antibody Properties and Clinically Relevant Immunogenicity, Anaphylaxis, and Hypersensitivity Reactions in Two Phase III Trials of Tralokinumab in Severe, Uncontrolled Asthma

Drug Safety

Mats Carlsson,[1] Martin Braddock,[2] Yuling Li,[3] Jihong Wang,[3] Weichen Xu,[3] Nicholas White,[4] Ayman Megally,[5] Gillian Hunter,[6] Gene Colice[5]

[1]Patient Safety, Global Medicines Development, AstraZeneca, Pepparedsleden 1, Mölndal, SE-431 83, Sweden

[2]Global Medicines Development, AstraZeneca, Granta Park, Great Abington, Cambridge, CB21 6GH, United Kingdom

[3]Biopharmaceutical Development, MedImmune, One MedImmune Way, Gaithersburg, Maryland 20878, United States

[4]Clinical Pharmacology, Pharmacometrics and DMPK, MedImmune, Granta Park, Great Abington, Cambridge, CB21 6GH, United Kingdom

[5]Global Medicines Development, AstraZeneca, One MedImmune Way, Gaithersburg, Maryland 20878, United States

[6]Biometrics and Information Sciences, AstraZeneca, Granta Park, Great Abington, Cambridge, CB21 6GH, United Kingdom

Corresponding author: Mats Carlsson, Patient Safety, Global Medicines Development, AstraZeneca, Pepparedsleden 1, Mölndal, SE-431 83, Sweden.

Mats.Carlsson@astrazeneca.com

Electronic Supplementary Material 5

Free thiol percentages by tralokinumab domain

Location of cysteine bond	Identity of cysteine residue	Free thiol (%)
V_L; intra-chain	LC Cys22+NEM	0.2%
	LC Cys87+NEM	ND
C_L; intra-chain	LC Cys136+NEM	0.3%
	LC Cys195+NEM	0.7%
LC-HC; inter-chain	LC Cys213+NEM	0.4%
	HC Cys136+NEM	0.3%
V_H; intra-chain	HC Cys22+NEM	ND
	HC Cys96+NEM	ND
C_H1; intra-chain	HC Cys149+NEM	2.6%
	HC Cys205+NEM	4.1%
Hinge HC-HC; inter-chain	HC Cys228+NEM	ND
	HC Cys231+NEM	ND
C_H2; intra-chain	HC Cys263+NEM	2.3%
	HC Cys323+NEM	Peptide not detected
C_H3; intra-chain	HC Cys369+NEM	2.1%
	HC Cys427+NEM	2.6%

Cys: cysteine, *C_H1* Heavy Chain Constant Domain 1, *C_H2* Heavy Chain Constant Domain 2, *C_H3* Heavy Chain Constant Domain 3, *C_L* Light Chain Constant Domain, *HC* Heavy Chain, *LC* Light Chain, *ND* not detected, *NEM* N-ethylmaleimide, *V_H* Heavy Chain Variable Domain, *V_L* Light Chain Variable Domain